

TOP SECRET

PHOTOGRAPHIC INTERPRETATION REPORT



KAPUSTIN YAR/VLADIMIROVKA
MISSILE TEST CENTER
USSR
COMPLEX C TRACKING FACILITY
AND
COMPLEX C INTERFEROMETER/
RANGE RATE FACILITY

25X1

JUNE 1967

COPY 116

8 PAGES

25X1

Declass Review by NIMA / DoD

GROUP 1: EXCLUDED FROM
AUTOMATIC DOWNGRADING
AND DECLASSIFICATION

TOP SECRET

Approved For Release 2003/06/20 : CIA-RDP78T04759A006700010008-6

TOP SECRET

CIA-RDP78T04759A006700010008-6

PREFACE

This report is one of a series prepared under NPIC Project 11211/66, in response to CIA requirement C-DI5-82,975, which requests detailed line drawings, to scale, of selected elements of the Kapustin Yar/Vladimirovka Missile Test Center (KY/Vlad MTC, Figure 1). The basic layout of the selected elements contained in this and other associated reports was compiled from recent high-resolution photography. Individual reports will be updated periodically upon completion of the series in order that changes may be reflected as they are observed on subsequent photography.

The precision target plots included in this report are mathematically rectified projections of the area. Plots are compiled by utilizing precision mensuration instruments, and image interpretation is performed with the aid of stereoscopic viewing equipment. Identifiable image points are measured and their coordinate values mathematically transformed by computer. This transformation corrects for camera and attitude (pitch, roll, and yaw) induced distortions, but does not correct for displacement due to ground relief and object height.

The horizontal and vertical dimensions included in this report are accurate to within plus or minus 5 feet, or plus or minus 5 percent, whichever is greater.

These target plots represent the most accurate data compiled to date, but the user is cautioned to exercise care in scaling distances or determining azimuths from these plots, because relief can introduce errors in distance and alignment.

Approved For Release 2003/06/20 : CIA-RDP78T04759A006700010008-6

TOP SECRET

CIA-RDP78T04759A006700010008-6

ILLEGIB

KAPUSTIN YAR/VLADIMIROVKA MISSILE TEST CENTER, USSR**COMPLEX C TRACKING FACILITY****AND****COMPLEX C INTERFEROMETER/RANGE RATE FACILITY**

These 2 facilities, because of their similar function and same general location, have been combined for the purpose of this report.

COMPLEX C TRACKING FACILITY**(48-37N 46-12E)**

The Complex C Tracking Facility (Figures 2 and 3), formerly known as the rangehead interferometer and electronic control facility, is located 2.9 nautical miles (nm) northwest of the Complex C Operations Center. The facility, which was first seen under construction [redacted] can be negated [redacted]. Construction was probably completed at the facility [redacted] however, additions were made in the operations area [redacted].

25X1D

25X1D

25X1D

The comparatively large facility has been separated into an operations area and general support area. It contains a variety of tracking and telemetry antennas, including an interferometer tracking device which is positioned just south of the operations area.

The operations area contains numerous probable telemetry antennas, a Radar A, 4 control buildings, 7 control support buildings, and a headquarters building. Several vans and truck-mounted vans are located throughout the area.

The interferometer is a standard USSR type, with 4 terminal antennas at the ends of the legs, 2 resolving antennas on the northern and eastern legs, and a central antenna. Each of these is positioned on small, square structures. The central antenna is located above the end of the buried control bunker. The base legs of the interferometer measure 390 feet (terminal antenna to terminal antenna) and are oriented 0/180 degrees and 90/270 degrees.

The general support area, which is located immediately west of the operations area, contains 4 general support buildings, 2 of which are under construction, and an athletic area.

COMPLEX C INTERFEROMETER/RANGE RATE FACILITY**(48-38N 46-16E)**

The Complex C Interferometer/Range Rate Facility (Figures 4 and 5) is located 2.6 nm north of the Complex C Operations Area.

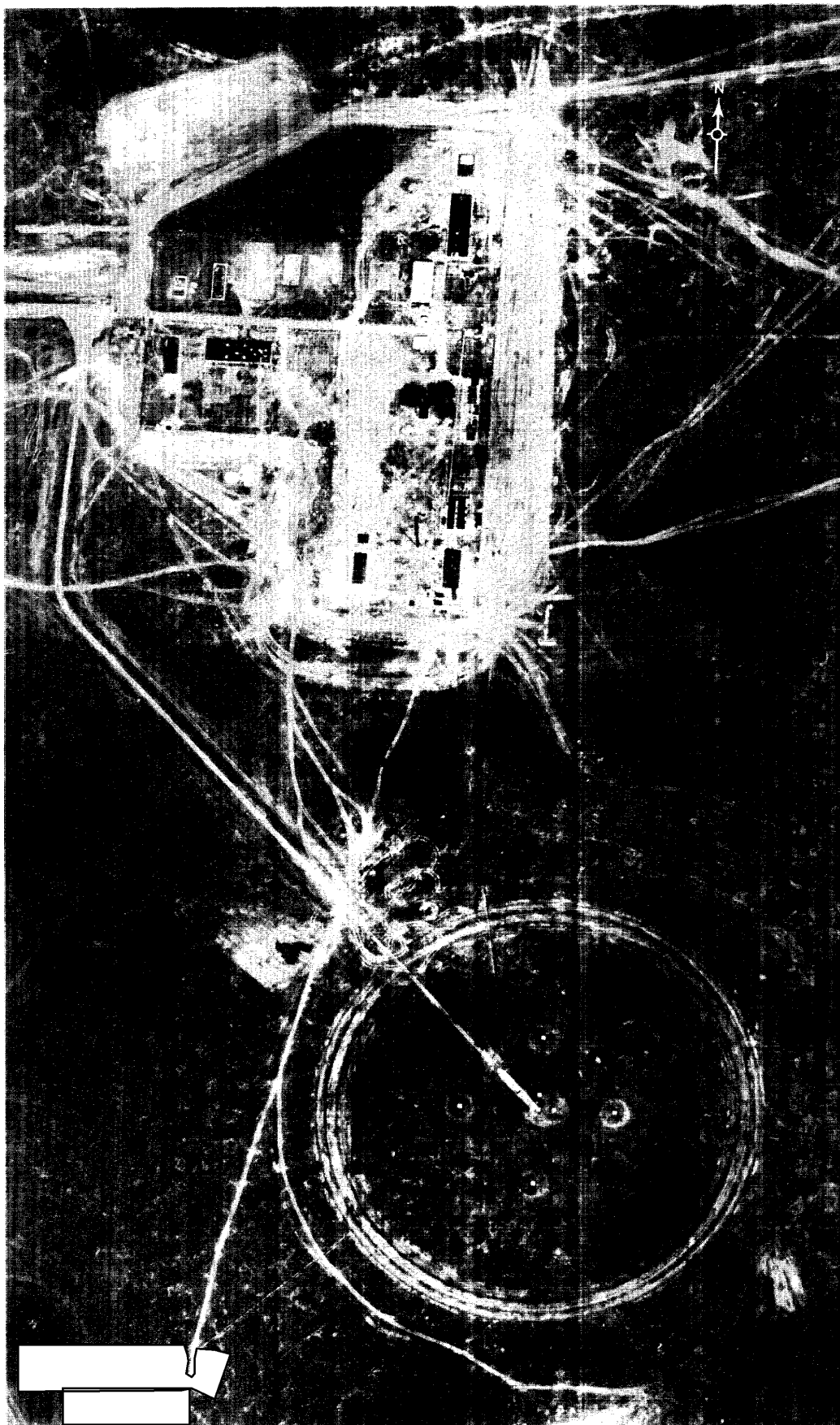
The facility was first seen [redacted] when it was probably still under construction. Construction was probably completed at the facility prior [redacted].

25X1D

The interferometer/range rate facility consists of a square security-fenced area with the tracking instrument forming an "X" within and along the diagonals of the fenced area. A similar type facility has been identified at Launch Complex C at Tyuratam Missile Test Center.

The instrumentation consists of 4 terminal antennas, each connected by a cable line to a central antenna position. Each of the terminal antennas has an associated electronics support van parked adjacent to it. The central antenna position has 3 associated large electronic vans, 1 truck van, and 2 possible generators parked on an adjacent hardstand. Each baseline (terminal antenna to terminal antenna) is 2,300 feet in length. The 2 baselines are oriented 05/185 degrees and 95/275 degrees.

25X1



25X1D

25X1

FIGURE 2. COMPLEX C TRACKING FACILITY, KY VLAD MTC.

TOP SECRET

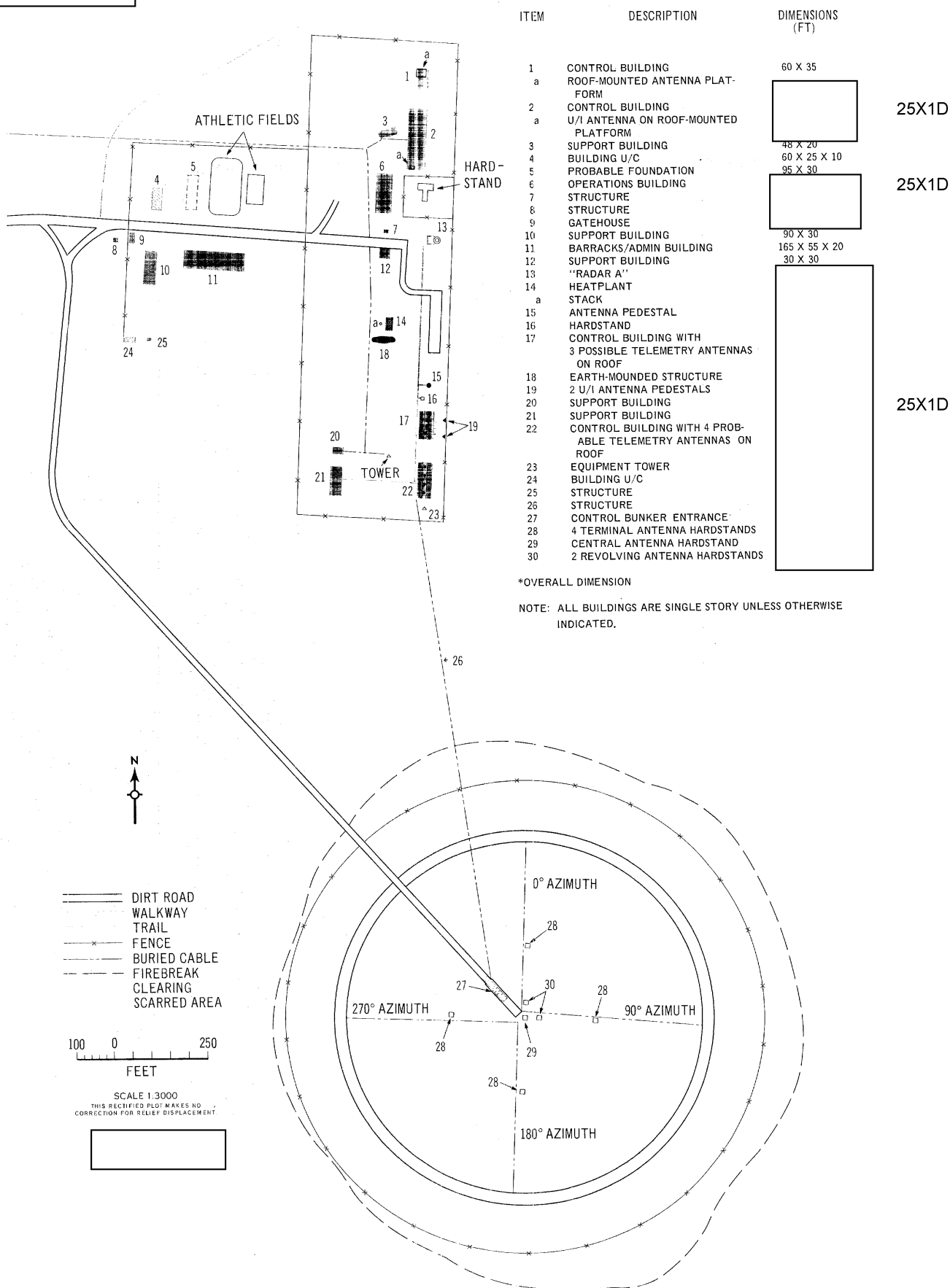


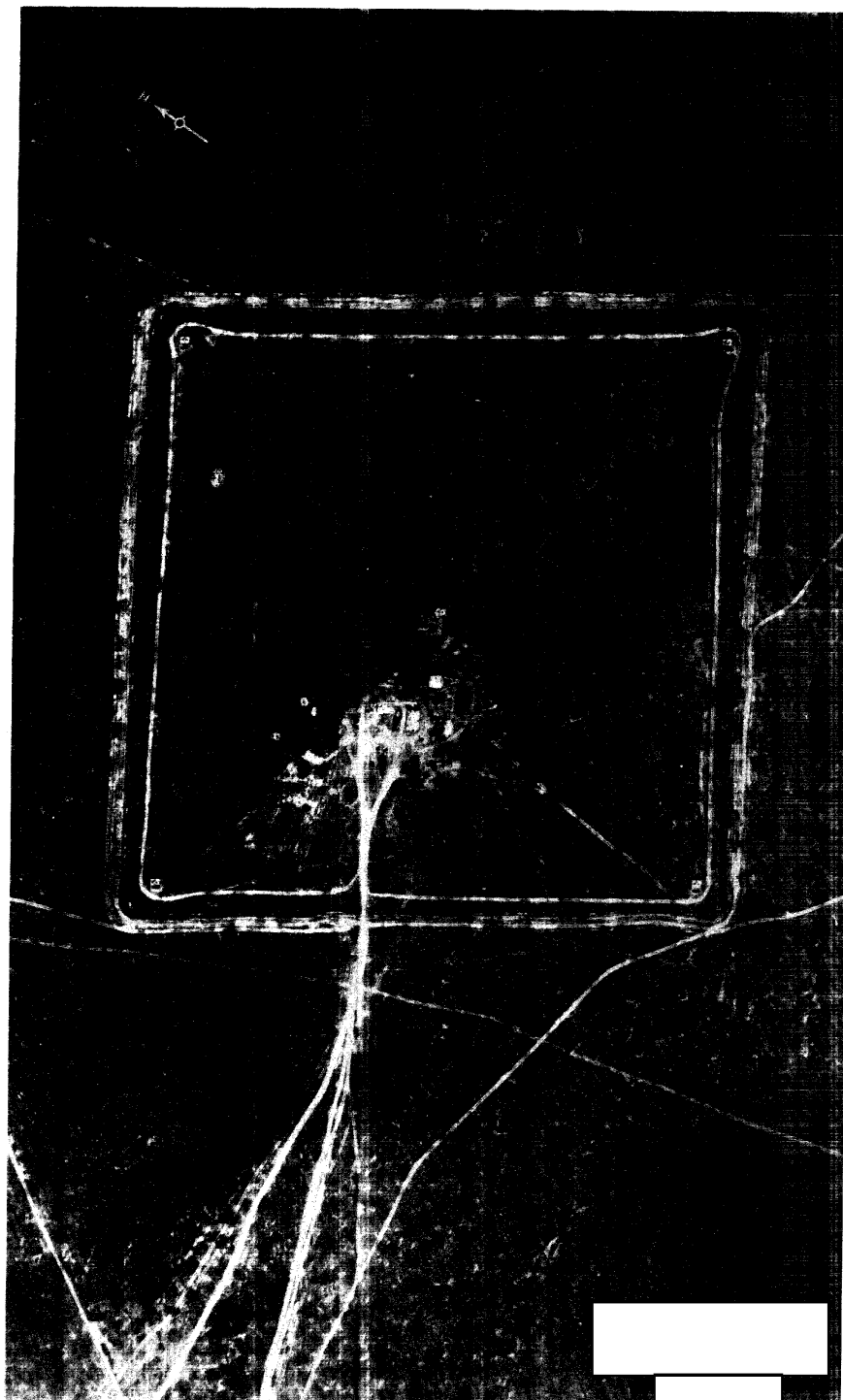
FIGURE 3. RECTIFIED PLOT, COMPLEX C TRACKING FACILITY, KY/VLAD MTC.

TOP SECRET

25X1

25X1

TOP SECRET

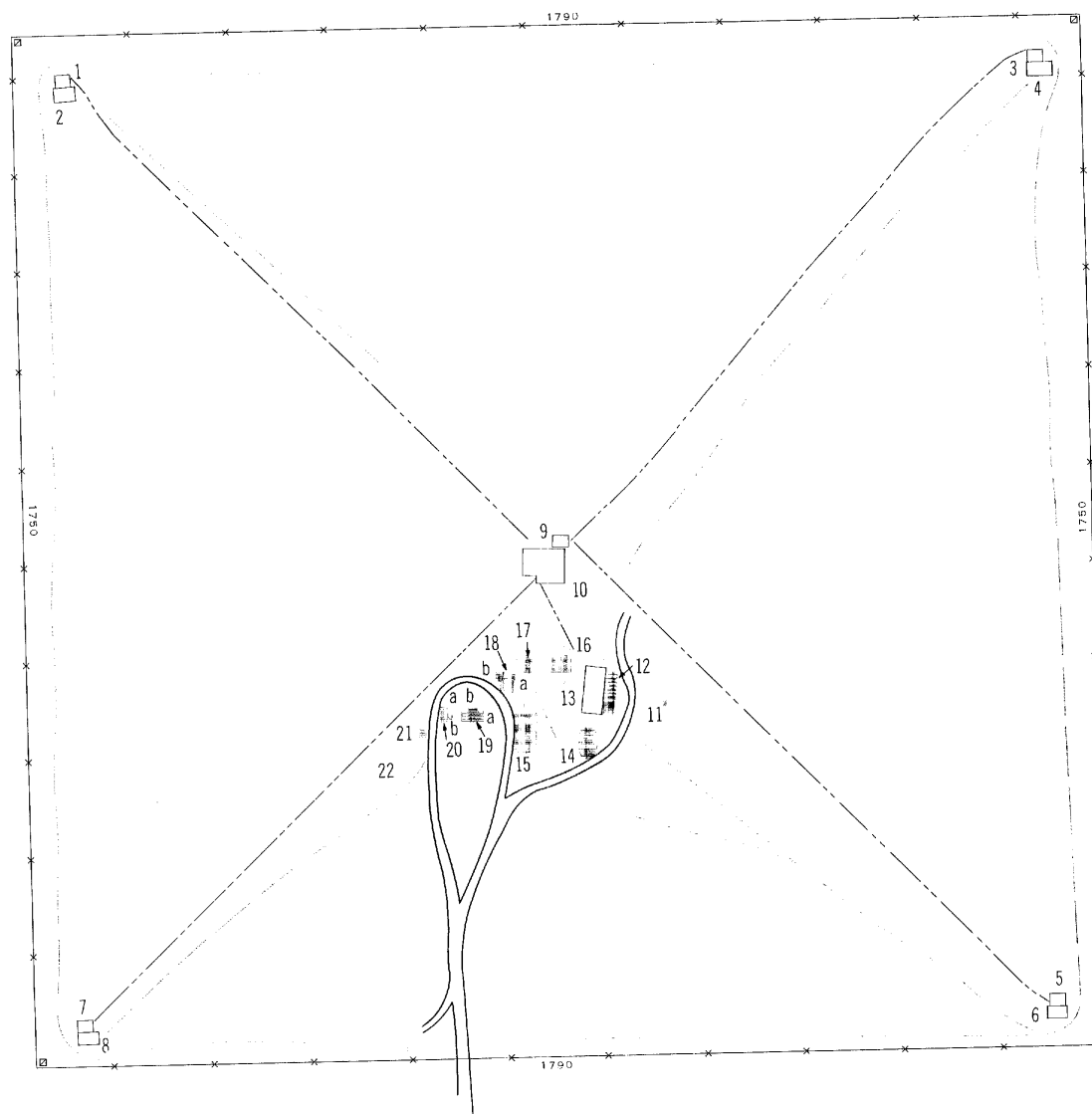


25X1D

25X1

FIGURE 4. COMPLEX C INTERFEROMETER/RANGE RATE FACILITY, KY/VLAD MTC.

25X1



ITEM	DESCRIPTION	DIMENSIONS (FT)	ITEM	DESCRIPTION	DIMENSIONS (FT)
1	TERMINAL ANTENNA HARD-STAND		13	HARDSTAND	
2	HARDSTAND		14	PROBABLE CONTROL BUNKER	
3	TERMINAL ANTENNA HARD-STAND		15	PROBABLE CONTROL BUNKER	
4	HARDSTAND		16	SUPPORT BUILDING	
5	TERMINAL ANTENNA HARD-STAND		17	PROBABLE CONTROL BUNKER	
6	HARDSTAND		18	SUPPORT BUILDING	
7	TERMINAL ANTENNA HARD-STAND		a	MAIN SECTION	
8	HARDSTAND		b	EXTENSION	
9	CENTRAL ANTENNA HARD-STAND		19	SUPPORT BUILDING	
10	HARDSTAND		a	MAIN SECTION	
11	STRUCTURE		b	EXTENSION	
12	SUPPORT BUILDING		20	SUPPORT BUILDING	
			a	MAIN SECTION	
			b	EXTENSION	
			21	STRUCTURE	
			22	STRUCTURE	

*OVERALL DIMENSION
NOTE: ALL BUILDINGS ARE SINGLE STORY.

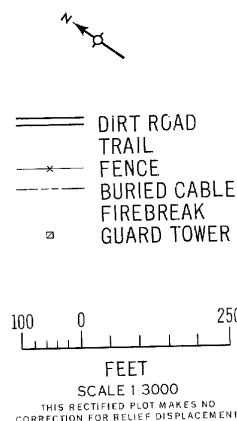


FIGURE 5. RECTIFIED PLOT, COMPLEX C INTERFEROMETER/RANGE RATE FACILITY, KY/VLAD MTC.

25X1

Approved For Release 2003/06/20 : CIA-RDP78T04759A006700010008-6

25X1

The operations/support area, which is located south of the central antenna position, consists of 6 buildings, 1 small structure, and 2 earth-mounded probable control bunkers. Several pieces of electronics support equipment are parked on 2 hardstands in the operations/support area.

25X1D

25X1D

REFERENCES

PHOTOGRAPHY

RELATED DOCUMENT

NPIC, R-5113/64, *Launch Complex C, Kapustin Yar-Vladimirovka Missile Test Center, USSR*, Dec 64 (TOP SECRET)

REQUIREMENT

CIA, C-DI5-82.975

NPIC PROJECT

1:211/66 (partial answer)

25X1

Approved For Release 2003/06/20 : CIA-RDP78T04759A006700010008-6

25X1

